

ABSTRACT OF THE DISCLOSURE

A micro fluidic module having at least a micro fluid channel barrier comprises at least an actuator, a firing chamber, a plurality of convergent fluid outlet channel and a plurality of convergent fluid inlet channel. The actuator (e.g. a heater) boils the working fluid and
5 generates thermal bubble and instant high pressure to eject the working fluid outside and expel the working fluid through the fluid outlet channel. Then, the working fluid refills from the fluid inlet channel. Therefore, the working fluid flows consistently through the firing chamber. The working fluid flowing through adjacent firing chambers are arranged in different or consistent directions. Therefore, the refilling speed of the working fluid is
10 increased, and the operating frequency of the module is improved.